CRYSTAL UNIT HC-49SMD/SSMD











Applications

Features

- Industrial Control Consumers.

- Dimensions:49SMD:11.5 x 4.80 x3.8 mm.
 - 49SSMD:11.5 x 4.80 x3.0 mm.
- Frequency range:3.2768~64MHz
- Surface mount type crystal units.
- A great number of standard frequencie

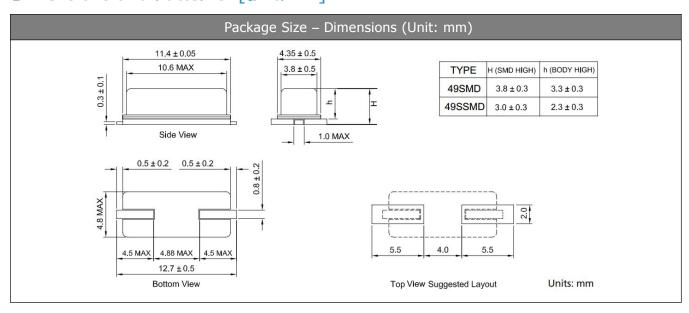
Specifications

Standard Frequency	3.2768~64 MHz		
Vibration Mode	AT Fundamental		
Load Capacitance	12pF,20pF,or specify		
Frequency Tolerance (at 25)	±10ppm,±20ppm,or specify		
Frequency Versus Temperature Characteristics	±20ppm,or specify		
Operating Temperature	-20~+70°C,-40~+85°C,or specify		
Storage Temperature	-40~+85℃ or specify		
Shunt Capacitance	7 pF Max.		
Level of Drive	1~500μWMax.(100uW typical)		
Aging (at 25 $^{\circ}\!$	±3ppm/year Max.		

Equivalent Series Resistance(ESR)

Fundamental								
3.2768 ~ 4MHz	180 Ω Max.	6 ~ 17 MHz	80 Ω Max.					
4 ~ 5MHz	120 Ω Max.	7 ~ 10 MHz	60 Ω Max.					
5 ~ 6 MHz	100 Ω Max.	10 ~ 27MHz	40 Ω Max.					
3rd Overtone								
20 ~ 25 MHz	100 Ω Max.	25 ~ 64 MHz	80 Ω Max.					

Dimensions and Patterns [unit:mm]



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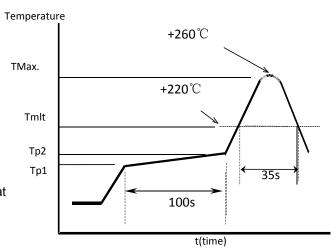


Reflow Soldering Profile

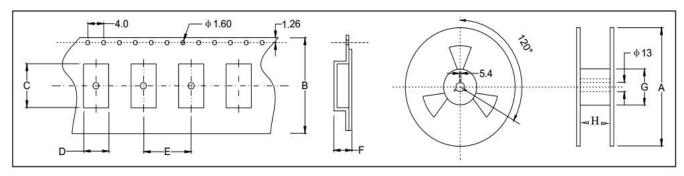
Pre Heating Temperature Tp1 ~ Tp2 = + 170 °C **Heating Temperature** TMIt = + 220 °C Peek Temperature TMax. = + 260 °C

Point of measuring In case of Solder ability Terminal.

> In case of Resistance to soldering heat Surface.



Taping Specification(Unit: mm)



Size	А	В	С	D	Е	F	G	Н
49SMD	330±2.0	24.0±0.3	11.90±0.1	5.00±0.1	8.0±0.1	4.25±0.2	100.0±1.0	24.5±1.0
49SSMD	330±2.0	24.0±0.3	11.80±0.1	5.00±0.1	8.0±0.1	3.50±0.2	100.0±1.0	24.5±1.0
1000 pcs per reel								